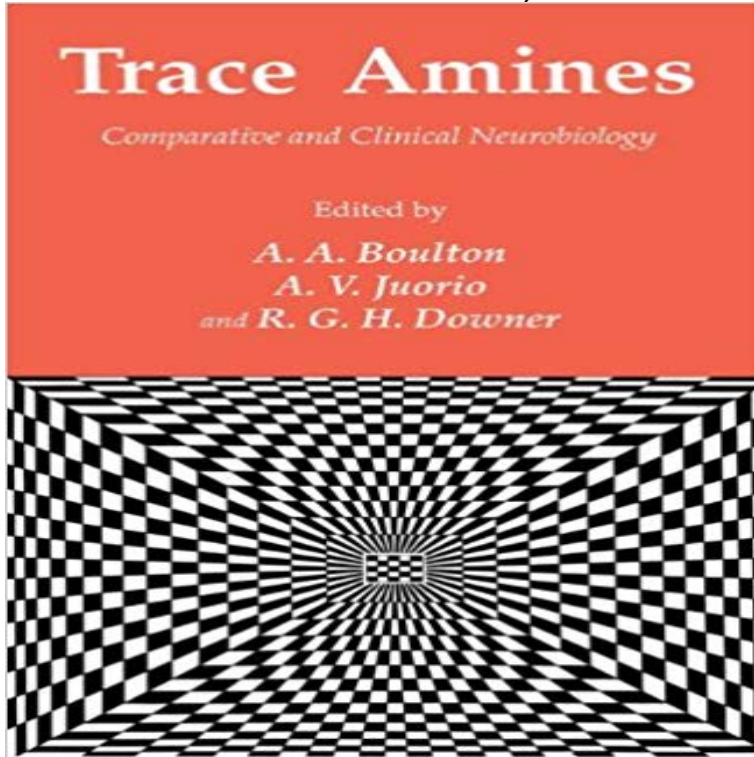


Trace Amines: Comparative and Clinical Neurobiology (Experimental and Clinical Neuroscience)



This is the third Proceedings book to arise from biennial conferences on the Trace Amines. Since our first meeting in 1983 in Edmonton, Canada, progress has been brisk and, as will be seen from the ensuing pages, it is now possible to include major contributions from invertebrate neurobiologists as well as receptorologists. In the opening session we heard about the distribution of the trace amines—now clearly a misnomer—in insects and the pharmacological, receptor, and synaptic characteristics of octopamine and tryptamine as well as the possibility of monoamines in general being targets for insecticide discovery. In mammalian brain the distribution and characterization of the tryptamine receptor has proceeded to the point where two types have been described as well as novel agonists and antagonists, and, for the first time, a binding site for p-tyramine has been described. The combination of lesions and pharmacological and metabolic manipulations now permits the mapping of trace aminergic pathways, and the rapidly accumulating evidence from releasing drugs, *in situ* microdialysis, iontophoresis, and second messenger systems lends credence to the claim that the trace amines possess neuromodulatory functions.

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